PRESS RELEASE

Contact Information:
FCL Components Europe
Essiena Uyttenbroek
Tel: +31 23 5560936
essiena.uyttenbroek@fcl-components.eu

FCL Components Releases the FTR-L1 a Latching Relay Series for AI Servers

Hoofddorp, The Netherlands – September 15, 2026 – FCL Components Europe B.V., has released FTR-L1 and FTR-L1R, a small-body, high-current relay series designed for AI server Power Supply Units (PSU's) with a built-in Automatic Transfer Switch (ATS).

The FTR-L1 (25A, 277VAC) and the FTR-L1R (40A, 277VAC) are 2-coil latching relays, so there is no need to waste power on coil consumption. A 1a+1b contact configuration makes the series suitable for switching AC power sources, and the relays offer a high dielectric strength of 2500VAC between open contacts.



The FTR-L1 series features a wide 4.5mm contact gap, making it capable of supporting operation in environments at altitudes up to 5000m. The series is in compliance with product safety standard IEC 62368-1:2023.

The Role of Relays in AI Systems

In AI systems, the PSU plays a critical role in delivering stable and sufficient power to high-performance components like Graphics Processing Units (GPUs) and AI accelerators. These components require much more power than in regular computers, so AI servers often use high-wattage, redundant PSUs to ensure reliability and avoid downtime.

In PSU's, the FTR-L1 relay series' role is to switch to an AC power source in an emergency as an ATS functionality, an essential feature for customers requiring high availability and continuous performance.

The series features a slim, low-profile design measuring just **50 × 20 × 27mm**, making it ideal for the compact, space-efficient PSU enclosures specified by **Open Rack V3 (ORv3)**. The **FTR-L1** is designed to meet the AC input current requirements of **3 kW-class ORv3 PSUs**, while the **FTR-L1R** supports the higher power demands of **5.5 kW-class ORv3 High Power Rack (HPR) PSUs**.

The **FTR-L1 series** has already generated strong interest among power supply manufacturers, and orders for mass-production units are now being accepted. Looking ahead, **FCL Components** is developing higher-capacity models to support next-generation **ORv3 HPR2 PSUs**, further expanding the series' capabilities for high-power data center applications.

Key Features:

	FTR-L1	FTR-L1R
Contact configuration	1a+1b	
Max. carrying current	25A	40A
Contact rating	25 A, 277VAC	40 A, 277VAC
Rated coil voltage	12V, 24V	
Coil rated power	2,400 mW	
Operating ambient temperature	-40 ℃ to +85 ℃	
Dielectric strength — between open contacts	2,500VAC, 1 min.	
Dielectric strength — between adjacent contacts	4,000VAC, 1 min.	
Dielectric strength — between coil and contacts	5,000VAC, 1 min.	
Dimensions / Weight	50 × 20 × 27mm / approx. 45 g	

Availability

The FTRL1 relay samples are available NOW, contact our team: info@fcl-components.eu

<Datasheet link>

About FCL Components Europe B.V.

FCL Components Europe B.V., markets, sells, and distributes relays, printers, IoT devices, wireless modules and touch panels throughout Europe, Middle East and Africa. The company is headquartered in Hoofddorp, The Netherlands and has representatives and distribution partners throughout its region. For more information, contact us via telephone at +31 23 5560910, by email info@fcl-components.eu or visit our website: https://www.fcl-components.com/en.